

**LISTING OF CLAIMS**

Claims 1-37 (cancelled)

Claim 38. (previously presented) A NMR probe module comprising:

at least one fluid inlet port, operative to receive a fluid sample,  
a fluid pathway comprising multiple channels in fluid communication with the at least one fluid inlet port, for the transport of fluid sample to be tested;  
multiple NMR detection sites, each in fluid communication with at least one of the multiple channels, each comprising:  
a sample holding void, and  
an associated NMR microcoil, wherein each NMR microcoil is operative to detect one or more analytes in the sample holding void with which the NMR microcoil is associated;  
a controllable fluid router operative to direct fluid sample in the module to at least a selected one of the multiple channels; and  
an analyte extraction chamber in fluid communication with at least one of the NMR detection sites, wherein the analyte extraction chamber is operative to perform dynamic field gradient focusing.

Claim 39. (previously presented) A NMR probe module comprising:

at least one fluid inlet port, operative to receive a fluid sample,

a fluid pathway comprising multiple channels in fluid communication with the at least one fluid inlet port, for the transport of fluid sample to be tested;

multiple NMR detection sites, each in fluid communication with at least one of the multiple channels, each comprising:

a sample holding void, and

an associated NMR microcoil, wherein each NMR microcoil is operative to detect one or more analytes in the sample holding void with which the NMR microcoil is associated;

a controllable fluid router operative to direct fluid sample in the module to at least a selected one of the multiple channels; and

an analyte extraction chamber in fluid communication with at least one of the NMR detection sites, wherein the analyte extraction chamber is operative to perform electric field gradient focusing.

Claims 40-55 (cancelled)

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